CSVEQ 100 D

COMPOSITE VIDEO, S-VIDEO, AND AUDIO LINE DRIVER - DECORA® WALLPLATE

- Independent line drivers for composite video, S-video, and audio in one product
- Simultaneously drives composite video, S-video, and audio signals
- Drives video up to 1000 feet (300 meters) on Extron RG59 or equivalent cable
- Drives balanced audio up to 1000 feet (300 meters) on Extron Shielded Twisted Pair or equivalent cable
- Separate gain and EQ controls for composite video and S-video
- Compatible with NTSC, PAL, and SECAM
- Audio signal buffering
- Selectable stereo or dual mono audio output
- Mounts in included Decora-style wallplate

The CSVEQ 100 D incorporates three, independent line drivers for composite video, S-Video, and audio in a single, Decora style wallplate. It is designed to compensate for signal attenuation and high frequency loss encountered during long cable runs, and is capable of driving all three signal types simultaneously. The convenient and attractive wallplate design allows for permanent, in-wall mounting close to the signal source in a variety of environments where composite, S-video, and audio signals need to be sent long distances.

DESCRIPTION

The **CSVEQ 100 D** is a high performance composite video, S-video, and audio line driver designed to compensate for signal attenuation and high frequency loss encountered during long cable runs. It is capable of simultaneously driving composite video and S-video plus audio signals up to 1000' (300 m) on Extron MHR or RG59 high resolution video cables and STP series audio cables. The CSVEQ 100 D mounts in a Decora style wallplate and is ideal for use in residential and commercial environments where video and audio signals need to be extended over a long distance.

The CSVEQ 100 D features independent variable gain and EQ adjustments for composite and S-video signals. This allows integrators and end-users to set gain and EQ levels for the specific cable run requirements of each signal type. The gain control compensates for signal voltage losses due to cable resistance, and allows for brightness adjustment by varying the overall voltage of the signal. EQ compensates for loss of sharpness and high frequency detail due to cable capacitance. Both gain and EQ condition the video signal, offering optimum picture quality regardless of cable length.

The CSVEQ 100 D also features audio signal buffering which converts unbalanced audio signals to balanced line level and simplifies integration of consumer-grade A/V products in commercial or professional-grade systems. Balanced audio signals are less susceptible to noise, and due to the inherent +6 dB signal gain, allow for cable runs up to 1000 feet (300 meters).

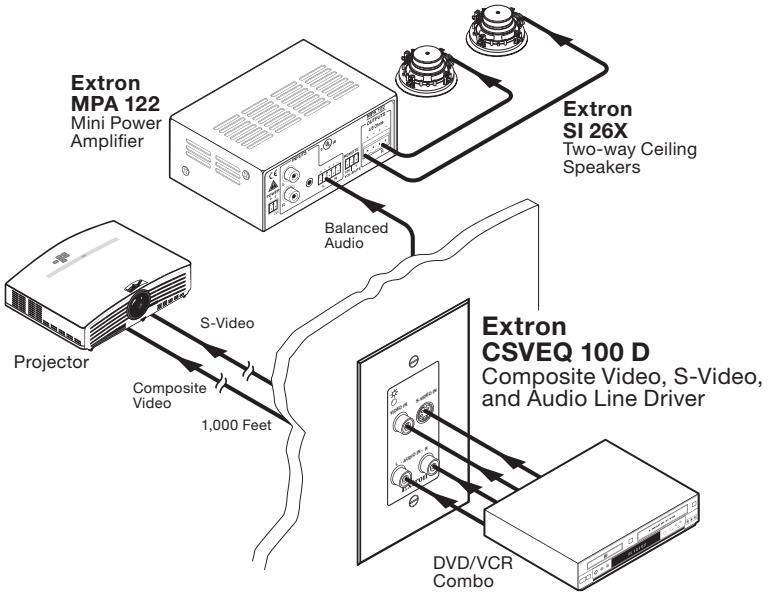
Selectable stereo or dual mono audio output provides a choice of stereo audio or actively-summed L+R mono audio on both outputs. This simplifies integration in program and distributed audio system designs.

The CSVEQ 100 D is available in either black or white and includes a matching, Decora-style wallplate.

FEATURES

- **Independent line drivers for composite video, S-video, and audio in one product**
- **Simultaneously drives composite video, S-video, and audio signals**
- **Long distance video line driver** –Drives video up to 1000 feet (300 meters) on Extron MHR or equivalent cable.
- **Long distance audio line driver** – Drives balanced audio up to 1000 feet (300 meters) on Extron Shielded Twisted Pair or equivalent cable.
- **Separate gain and EQ controls for composite video and S-video** – Allows independent adjustment and optimization of each signal type for their specific routing requirements.
- **Independent variable gain control** – Compensates for signal voltage losses due to cable resistance.
- **Independent variable EQ control** – Compensates for loss of sharpness and high frequency detail due to cable capacitance.
- **Selectable stereo or dual mono audio output** – Choice of stereo audio or actively-summed L+R mono audio on both outputs simplifies integration in program and distributed audio system designs.
- **Audio signal buffering** – Converts unbalanced audio signals to balanced line level signals.
- **Compatible with NTSC, PAL, and SECAM**
- **Mounts in included Decora-style wallplate**
- **External universal power supply included** – Provides worldwide power compatibility.

APPLICATION DIAGRAM



VIDEO

Gain	Composite video and Y of S-video: -1 dB to +3 dB (x0.9 to x1.4), adjustable C of S-video: 0 dB to +10 dB (x1 to x3), adjustable
Equalization	0 dB to +7 dB (x1 to x2) at 5 MHz, adjustable
Bandwidth (Y of S-video)	185 MHz (-3 dB)
Output cable driving distance	Up to 1000' (300 m) with Extron MHR cable

VIDEO INPUT

Nominal level	1 Vp-p for Y of S-video, and for composite video (including sync) 0.3 Vp-p for C of S-video
Minimum/maximum levels	0.4 to 2.0 Vp-p with no offset at unity gain for composite video (including sync) or for Y of S-video
Return loss	<-25 dB @ 0 to 5 MHz
DC offset (max. allowable)	4.0 V
Input coupling	AC

VIDEO OUTPUT

Number/signal type	1 composite video, 1 S-video
Connectors	3 female BNC attached via 4" pigtails
Nominal level	1 Vp-p for Y of S-video, and for composite video (including sync) 0.3 Vp-p for C of S-video
Minimum/maximum levels	0.4 to 2.0 Vp-p (follows input)
Return loss	-30 dB @ 5 MHz
DC offset	±5 mV with no input signal Floating: +0.1 to -0.6 V, depending on input signal content

SYNC

Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM

AUDIO

Gain	Unbal. output: 0 dB; bal. output: +6 dB
Frequency response	20 Hz to 20 kHz, +0.05 dB
THD + Noise	0.03% @ 1 kHz at nominal level
S/N	>90 dB at maximum output (unweighted)
Stereo channel separation	>80 dB @ 1 kHz
CMRR	>67 dB @ 20 Hz to 20 kHz
Output cable driving distance	Up to 1000' (300 m) with Extron STP cable

AUDIO INPUT

Impedance	18k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level	+10 dBV, unbalanced at 1% THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

AUDIO OUTPUT

Number/signal type	1 stereo or dual mono (switch-selectable), balanced/unbalanced
Connectors	(1) 3.5 mm direct insertion captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.5 dB channel to channel
Maximum level (Hi-Z)	>+15 dBu (balanced or unbalanced) at 1% THD+N
Maximum level (600 ohm)	>+9 dBm (balanced or unbalanced) at 1% THD+N

GENERAL

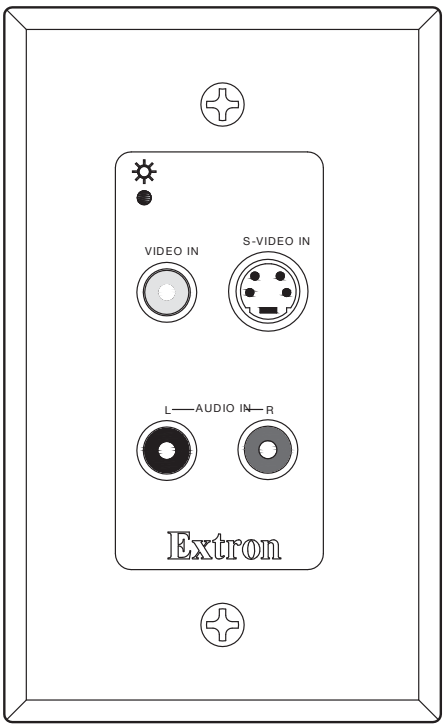
External power supply	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 2 A, regulated
Cooling	Convection, no vents
Mounting	Wall or furniture mountable with standard US electrical wall boxes or mud rings
Enclosure	Metal rear enclosure, plastic faceplate
Enclosure dimensions	
Faceplate	2.6" H x 1.3" W x 0.1" D (6.6 cm H* x 3.3 cm W x 0.3 cm D) (Fits the opening in a 1 gang Decora® faceplate. *Height is 3.8" [9.5 cm], including mounting tabs.) (Depth excludes connectors.)
Device	2.7" H x 1.8" W x 0.75" D (6.9 cm H x 4.6 cm W x 1.9 cm D) (Depth excludes connectors; height excludes mounting tabs.)
Product weight	0.2 lbs (0.1 kg)
Shipping weight	2 lbs (1 kg)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

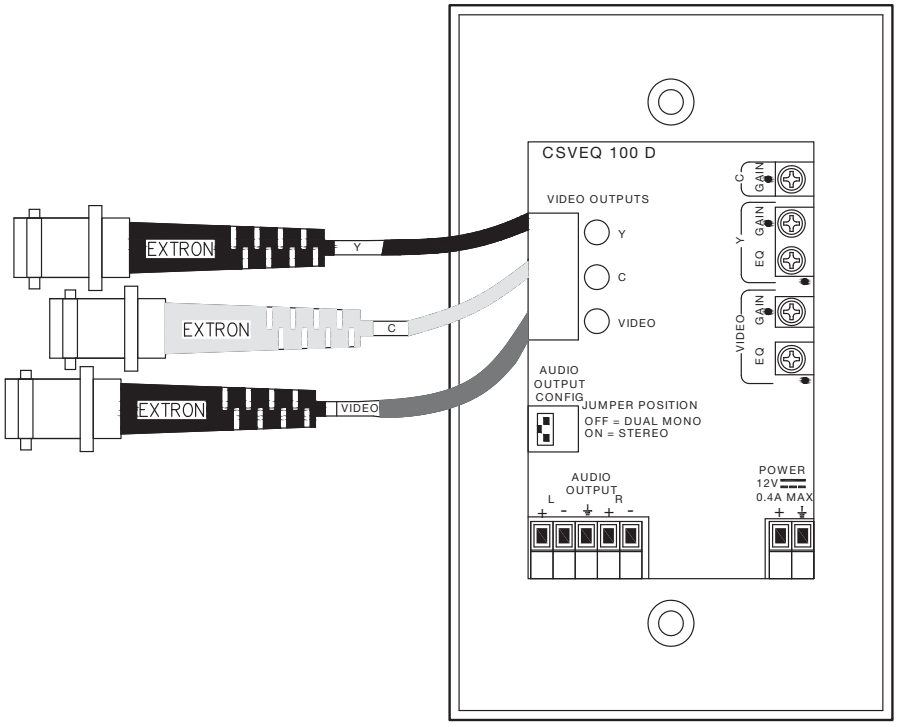
Model	Version Description	Part Number
CSVEQ 100 D	Decora Wallplate - Black	60-951-02
CSVEQ 100 D	Decora Wallplate - White	60-951-03

Specifications are subject to change without notice.

PANEL DRAWINGS



CSVEQ 100 D - Front



CSVEQ 100 D - Back

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